Inverse of Square Root Function

Version 2

Name: _____ **Date**: _____ **Score**: _____

Direction: Find the inverse of each function, and state its domain and range. Show all your work in the space provided.

1) $f(x)=\sqrt{x}+1,\ x\geq 0$

2) $f(x)=-\sqrt{x}-1,\ x\geq 0$

3) $f(x)=-\sqrt{4-x^2},\ 0\leq x\leq 2$

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Direction: Find the inverse of each function, and state its domain and range. Show all your work in the space provided.

1) $f(x)=\sqrt{x}+1,\ x\geq 0$

$f^{-1}(x)=x^2-2x+1;\ Domain: x\geq 1,\ Range: y\geq 0$

2) $f(x)=-\sqrt{x}-1,\ x\geq 0$

$f^{-1}(x)=x^2+2x+1;\ Domain: x\leq -1,\ Range: y\geq 0$

3) $f(x)=-\sqrt{4-x^2},\ 0\leq x\leq 2$

$f^{-1}(x)=\sqrt{4-x^2};\ Domain: -2\leq x\leq 0,\ Range: 0\leq y\leq 2$